

ABSTRACT OF THE DISCLOSURE

A semiconductor laser excitation solid state laser apparatus is provided which can generate a stable and highly efficient laser beam of high power. The laser apparatus includes a solid state laser element 2 containing an active medium, a semiconductor laser 1 for optically exciting the semiconductor laser 1, a power supply 8 for supplying electric power to the semiconductor laser 1, and an optical resonator 9, 10 for taking out a laser beam from the optically excited solid state laser element 2. When the semiconductor laser 1 is pulse-operated to pulse-excite the solid state laser element 2, current supplied to the semiconductor laser 1 is changed within one pulse.